

ABSTRACT

Disclosed is a human is a hTopI- α polypeptide and DNA (RNA) encoding such hTopI- α polypeptide. Also provided is a procedure for producing such polypeptide by recombinant techniques and antibodies and antagonists against such polypeptide. Also provided are methods of using the antibodies and antagonist inhibitors to inhibit the action of hTopI- α for therapeutic purposes such as an antitumor agent, to detect an autoimmune disease, or retroviral infections and to treat adenocarcinoma of the colon. Diagnostic methods for detecting mutations in the coding sequence and alterations in the concentration of the polypeptides in a sample derived from a host are also disclosed.